

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Original) A method for modifying a standard model based on measured data, comprising the steps of:

modifying the standard model prepared in advance of modification in accordance with the measured data and deciding whether to further modify the standard model or to finish the modification of the standard model based on integrated evaluation of two or more functions selected from a first function relating to a distance between the standard model and the measured data, a second function relating to a distance between a characteristic point defined on the standard model and a characteristic point specified on the measured data and corresponding to the characteristic point defined on the standard model and a third function relating to a distance between an outline defined on the standard model and an outline specified on the measured data and corresponding to the outline on the standard model.

2. (Currently Amended) The method according to claim 1, wherein
the first function, the second function and the third function are energy functions,
the integrated evaluation is performed by evaluating a total value of two or more energy functions, and
the modification is completed and a shape model is produced when it is judged that the total value is converged.

3. (Currently Amended) The method according to claim 2, wherein
an energy function is defined as a fourth function for avoiding excessive modification of
the standard model,
the integrated evaluation is performed by evaluating a total value of the four functions,
and
the modification is completed and a shape model is produced when it is judged that the
total value is converged.

4. (Original) The method according to claim 1, wherein weight in the integrated
evaluation is determined based on:
the measured data when the first function is used for the integrated evaluation;
the characteristic point specified on the measured data when the second function is used
for the integrated evaluation; or
the outline specified on the measured data when the third function is used for the
integrated evaluation.

5. (Currently Amended) A method for modifying a standard model on which a plurality
of control points are defined based on measured data, comprising the steps of:
modifying the standard model which is prepared in advance of modification based on the
measured data, wherein the standard model is modified by manipulating control points on the
standard model; and

deciding whether to further modify the standard model or to finish the modification of the standard model based on integrated evaluation of a first function relating to a distance between whole or a part of the standard model to be modified based on a first control points of the plurality of control points and a part of the measured data corresponding to the whole or a part of the standard model and a second function relating to a distance from a part of the standard model to be modified by a second control points of the plurality of points and a part of the measured data corresponding to the part of the standard model.

6. (Cancelled)

7. (Currently Amended) The method according to claim 6 11, wherein
the first standard model is a model representing a human face,
the second standard model is a model representing human hair, and
the measured data is obtainable by measuring a human face and human hair.

8. (Currently Amended) The method according to claim 6 11, wherein
a plurality of the second standard model may be used.

Claims 9 and 10 (Cancelled)

11. (Currently Amended) A method for modifying a standard model based on measured data, comprising the steps of:

dividing the standard model into a first standard model and a second standard model which are related to each other by means of corresponding points or corresponding lines;

modifying the first standard model based on the measured data; and

modifying the second standard model based on the measured data, and based on the corresponding points or the corresponding lines of the modified first standard model.

Claims 12 - 15 (Cancelled)

16. (Currently Amended) A method for modifying a standard model having a plurality of control points defined thereon, wherein the standard model is modified by manipulating the control points, comprising the steps of:

modifying the standard model to be conformed to the measured data by changing positions of a part of the plurality of control points defined on the standard model; and

modifying the modified standard model in order to have the standard model more conformed to the measured data by changing positions of a part of the plurality of control points whose number is larger than that of the part of the control points which have been used in the previous modification or by changing whole the plurality of control points.

17. (Original) A method for generating a three-dimensional model of an object. comprising the steps of:

preparing measured data and a standard model of the object; and

modifying the standard model in accordance with the measured data, wherein

it is decided whether to further modify the standard model or to finish the modification of the standard model based on integrated evaluation of two or more functions selected from a first function relating to a distance between the standard model and the measured data, a second function relating to a distance between a characteristic point defined on the standard model and a characteristic point specified on the measured data and corresponding to the characteristic point defined on the standard model and a third function relating to a distance between an outline defined on the standard model and an outline specified on the measured data and corresponding to the outline on the standard model.

18. (New) The method according to claim 16, wherein

the part of the plurality of control points whose positions are changed in the step of modifying the standard model are low-density control points,

the part of the plurality of control points whose positions are changed in the step of modifying the modified standard model are high-density control points, and

the low-density control points are determined by reducing control points from the high-density control points.